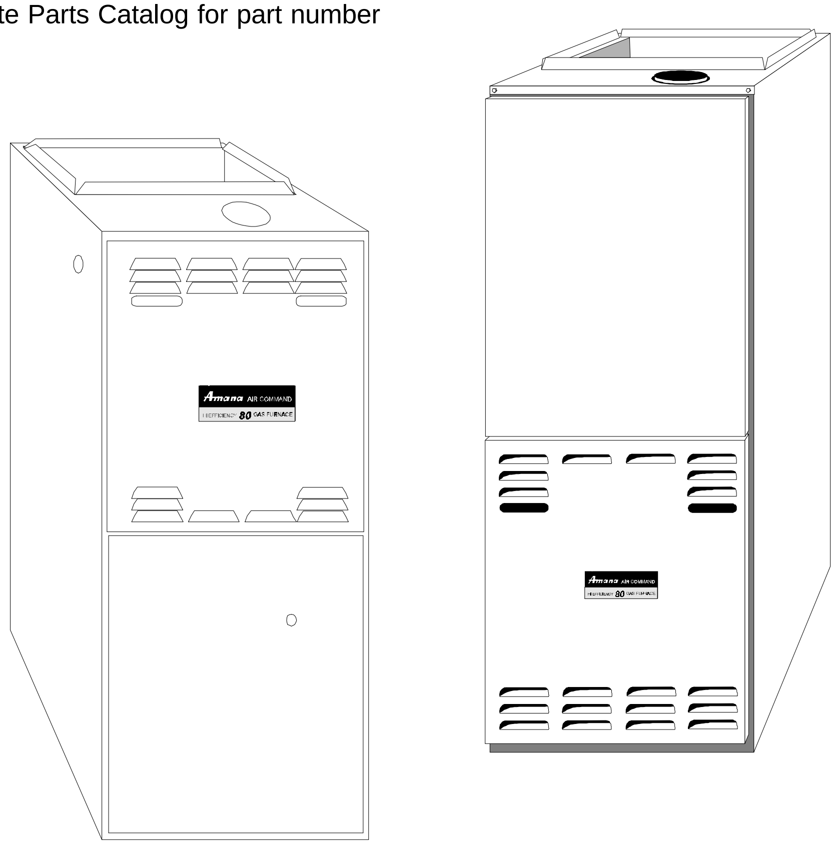
Model and Manufacturing numbers listed on page 3.

Technical Information

40" 80% Gas Furnaces
GUIC, GCIC

- Refer to Service Manual RS6600001 Rev. 1 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.



This manual replaces RT6621003 Rev. 0 April 2000.

REV. 1 - Corrections made to manual, added the following two models:
GCIC045DX30 P1222701F
GCIC090DX50 P1222705F

Amana® Heating & Air Conditioning
Built Better Than It Has To Be

This manual is to be used by qualified HVAC technicians only. Amana does not assume any responsibility for property damage or personal injury due to improper service procedures performed by an unqualified person.

RT6621003
Revision 1
September 2000

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. When engineering and manufacturing changes take place where interchangeability of components are affected, the manufacturing number will change.

It is very important to use the model and manufacturing numbers at all times when requesting service or parts information.

G U I C 045 C A 50

Product Type
G: Gas Furnace

Supply Type
U: Upflow/Horizontal
C: Counterflow/Horizontal

Furnace Type
I: Induced Draft (80%)

Model Family
C : Air Command 80 SSE Category1

Nominal Input
045: 45,000 Btuh
070: 70,000 Btuh
090: 90,000 Btuh
115: 115,000 Btuh
140: 140,000 Btuh

Design Series
C: Third Design Series
D: Fourth Design Series

Additional Features
A: Not NOx Certified
X: NOx Models

Airflow Capability
30: 3.0 Tons
40: 4.0 Tons
50: 5.0 Tons

WARNING IF REPAIRS ARE ATTEMPTED BY UNQUALIFIED PERSONS, DANGEROUS CONDITIONS (SUCH AS EXPOSURE TO ELECTRICAL SHOCK) MAY RESULT. THIS MAY CAUSE SERIOUS INJURY OR DEATH.

CAUTION AMANA WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU PERFORM SERVICE ON YOUR OWN PRODUCT, YOU ASSUME RESPONSIBILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY RESULT.

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. When engineering and manufacturing changes take place where interchangeability of components are affected, the manufacturing number will change.

It is very important to use the model and manufacturing numbers at all times when requesting service or parts information.

MODEL	M/N
GUIC045CX30	P1207401F
GUIC070CX30	P1207402F
GUIC070CX40	P1207403F
GUIC090CX30	P1207404F
GUIC090CX50	P1207405F
GUIC115CX40	P1207406F
GUIC115CX50	P1207407F
GUIC140CX50	P1207408F

GUIC045CA30	P1207601F
GUIC070CA30	P1207602F
GUIC070CA40	P1207603F
GUIC090CA30	P1207604F
GUIC090CA50	P1207605F
GUIC115CA40	P1207606F
GUIC115CA50	P1207607F
GUIC140CA50	P1207608F

GUIC045DA30	P1222501F
GUIC070DA30	P1222502F
GUIC090DA50	P1222505F
GUIC115DA50	P1222507F

GUIC045DA30	P1226601F
GUIC070DA30	P1226602F
GUIC070DA40	P1226603F
GUIC090DA30	P1226604F
GUIC090DA50	P1226605F
GUIC115DA40	P1226606F
GUIC115DA50	P1226607F
GUIC140DA50	P1226608F

GUIC045DX30	P1226701F
GUIC070DX30	P1226702F
GUIC070DX40	P1226703F
GUIC090DX30	P1226704F
GUIC090DX50	P1226705F
GUIC115DX50	P1226707F

MODEL	M/N
GUIC045CA30	P1229001F
GUIC070CA30	P1229002F
GUIC070CA40	P1229003F
GUIC090CA30	P1229004F
GUIC090CA50	P1229005F
GUIC115CA40	P1229006F
GUIC115CA50	P1229007F
GUIC140CA50	P1229008F

GUIC045CA30	P1229101F
GUIC070CA30	P1229102F
GUIC070CA40	P1229103F
GUIC090CA30	P1229104F
GUIC090CA50	P1229105F
GUIC115CA40	P1229106F
GUIC115CA50	P1229107F
GUIC140CA30	P1229108F

GUIC045CX30	P1229201F
GUIC070CX30	P1229202F
GUIC070CX40	P1229203F
GUIC090CX30	P1229204F
GUIC090CX50	P1229205F
GUIC115CX40	P1229206F
GUIC115CX50	P1229207F
GUIC140CX50	P1229208F

GUIC045CX30	P1229301F
GUIC070CX30	P1229302F
GUIC070CX40	P1229303F
GUIC090CX50	P1229305F
GUIC115CX40	P1229306F
GUIC115CX50	P1229307F
GUIC140CX50	P1229308F

MODEL	M/N
GCIC045CX30	P1207501F
GCIC070CX30	P1207502F
GCIC070CX40	P1207503F
GCIC090CX30	P1207504F
GCIC090CX50	P1207505F
GCIC115CX40	P1207506F
GCIC115CX50	P1207507F
GCIC140CX50	P1207508F

GCIC045DX30	P1222701F
GCIC090DX50	P1222705F

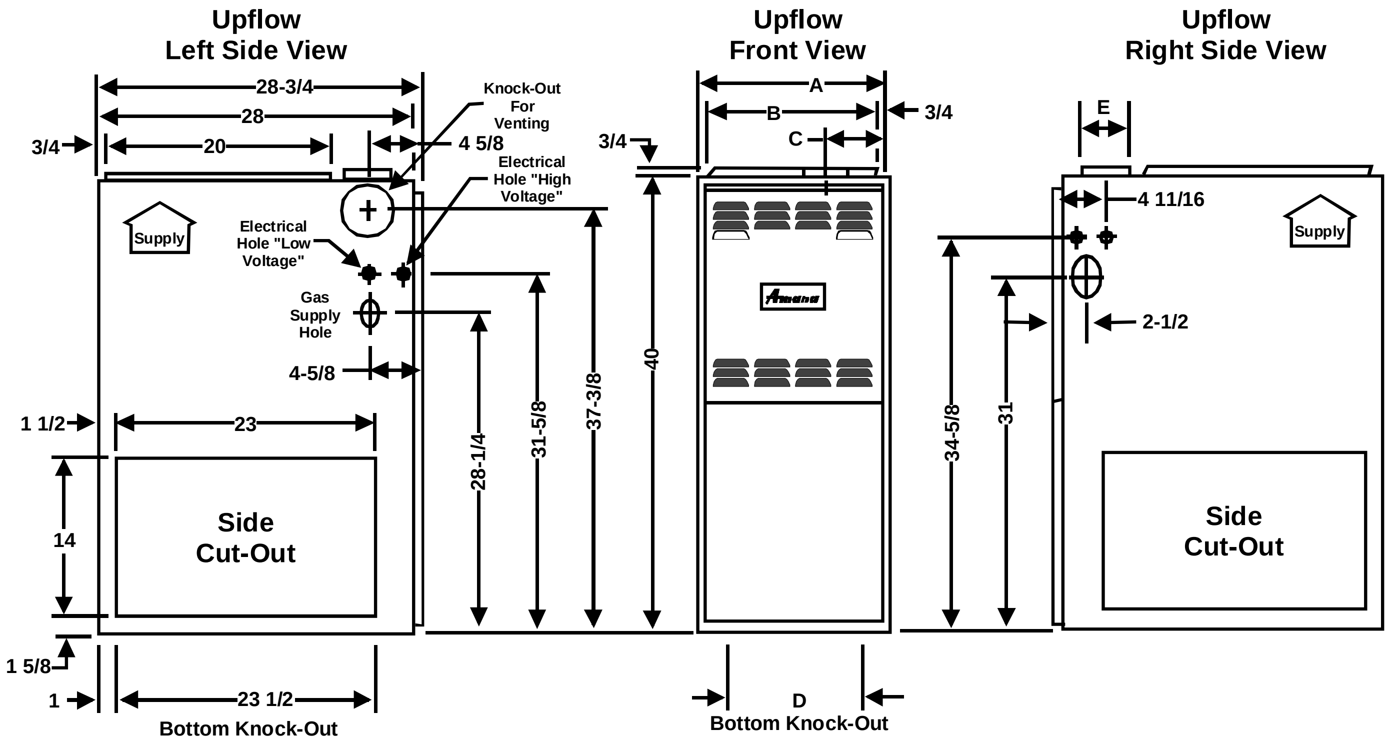
GCIC045DX30	P1226801F
GCIC070DX30	P1226802F
GCIC070DX40	P1226803F
GCIC090DX30	P1226804F
GCIC090DX50	P1226805F
GCIC115DX40	P1226806F
GCIC115DX50	P1226807F

GCIC045CX30	P1230401F
GCIC070CX30	P1230402F
GCIC070CX40	P1230403F
GCIC090CX30	P1230404F
GCIC090CX50	P1230405F
GCIC115CX40	P1230406F
GCIC115CX50	P1230407F
GCIC140CX50	P1230408F

GCIC045CX30	P1230501F
GCIC070CX30	P1230502F
GCIC070CX40	P1230503F
GCIC090CX30	P1230504F
GCIC090CX50	P1230505F
GCIC115CX40	P1230506F
GCIC115CX50	P1230507F
GCIC140CX50	P1230508F

PRODUCT DIMENSIONS

GUIC 80% Upflow/Horizontal

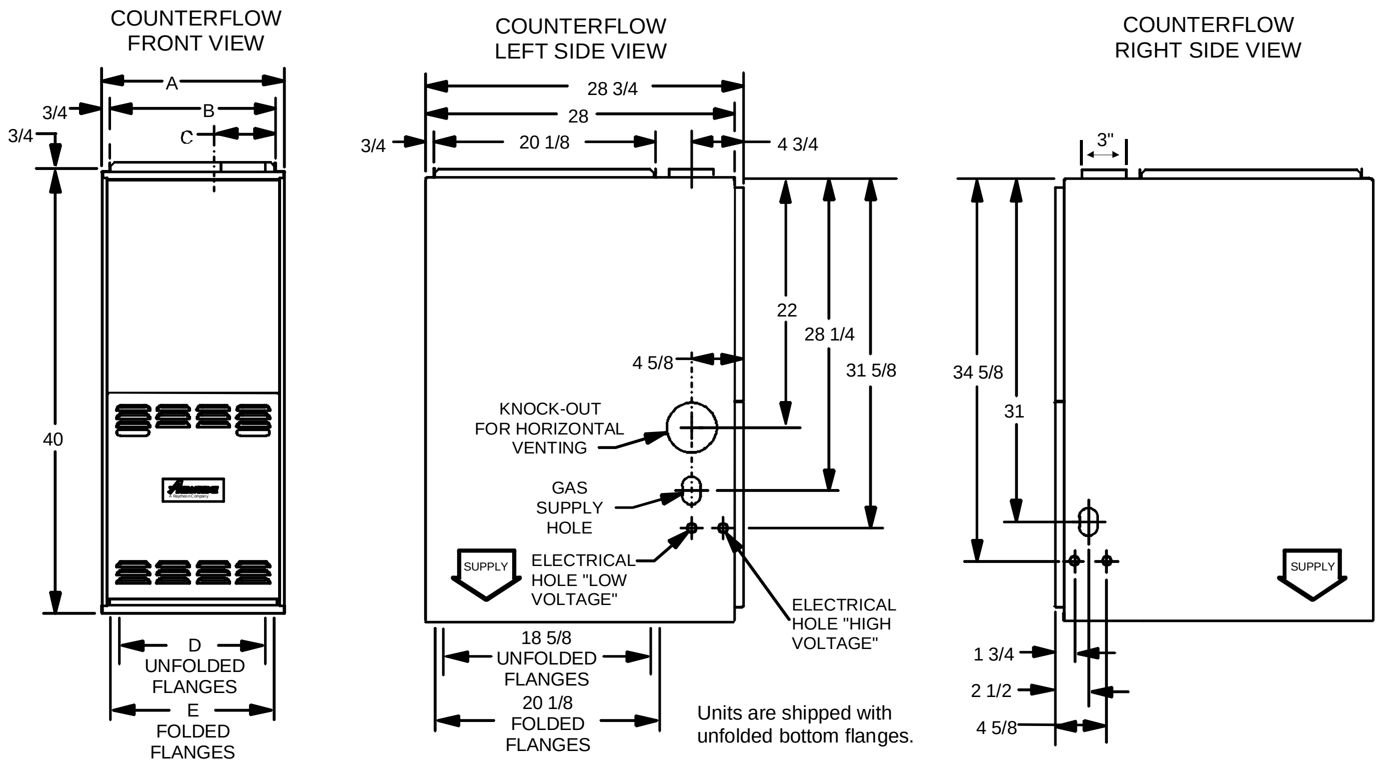


GUIC DIMENSIONS						
FURNACE MODEL	**A**	**B**	**C**	**D**	**E**	**Minimum Vent Diameter**
GUIC045 GUIC070	16-1/2	15	5-1/4	12-5/8	4	4
GUIC090	20-1/2	19	7-1/4	14-5/8	4	4
GUIC115 GUIC140	24-1/2	23	9-1/4	18-5/8	4	5

All dimensions are in inches.

PRODUCT DIMENSIONS

GCIC 80% Counterflow/Horizontal



GCIC DIMENSIONS						
FURNACE MODEL	**A**	**B**	**C**	**D Unfolded**	**E Folded**	**Minimum Vent Diameter**
GCIC045 GCIC070	16-1/2	15	5/3/8	13-1/2	15	4
GCIC090	20-1/2	19	7-3/8	17-1/2	19	4
GCIC115 GCIC140	24-1/2	23	9-3/8	21-1/2	23	5

All dimensions are in inches.

PRODUCT DESIGN

General Operation

This GUIC/GCIC furnace is equipped with an electronic ignition device to light the burners and an induced draft blower to exhaust combustion products.

An interlock switch prevents furnace operation if the blower door is not in place. Keep the blower access doors in place except for inspection and maintenance.

This furnace is also equipped with a self-diagnosing electronic control module. In the event a furnace component is not operating properly, the control module LED will flash on and off in a factory-programmed sequence, depending on the problem encountered. This light can be viewed through the observation window in the blower access door. Refer to the *Troubleshooting Chart* for further explanation of the LED codes and *Abnormal Operation - Integrated Ignition Control* section in the Service Instructions for an explanation of the possible problem.

The rated heating capacity of the furnace should be greater than or equal to the total heat loss of the area to be heated. The total heat loss should be calculated by an approved method or in accordance with “ASHRAE Guide” or “Manual J-Load Calculations” published by the Air Conditioning Contractors of America.

*Obtain from: American National Standards Institute 1430 Broadway New York, NY 10018

Location Considerations

- The furnace should be as centralized as is practical with respect to the air distribution system.
- Do not install the furnace directly on carpeting, tile, or combustible material other than wood flooring.
- When suspending the furnace from rafters or joists, use 3/8" threaded rod and 2” x 2” x 3/8” angle as shown in the Installation and Service Instructions. The length of the rod will depend on the application and clearance necessary.
- When installed in a residential garage, the furnace must be positioned so the burners and ignition source are located not less than 18 inches (457 mm) above the floor and protected from physical damage by vehicles.

Accessibility Clearances (Minimum)

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)				
	UPFLOW	COUNTERFLOW	HORIZONTAL LEFT	HORIZONTAL RIGHT
FRONT	6[1]	6[1]	Alcove	Alcove
RIGHT	0	0	6	12
LEFT	0	0	12	6
REAR	0	0	0	0
TOP	1	1	6	6
FLUE	6[2]	6[2]	6[2]	6[2]
FLOOR	C	NC	C	C

[1] = 3 inch when using Type B-1 vent is used.

[2] = 1 inch when Type B-1 vent is used.

C = If placed on combustible floor, floor MUST be wood ONLY.

NC = If placed on combustible floor, floor MUST be wood ONLY.

Counterflow installations on a combustible floor only when installed on special base ASB01.

36" at front is required for servicing or cleaning.

Note: In all cases accessibility clearance shall take precedence over clearances from the enclosure where accessibility clearances are greater. All dimensions are given in inches.

High Altitude Derate

When this furnace is installed at high altitude, the appropriate High Altitude orifice kit must be installed. This is required due to the natural reduction in the density of both the gas fuel and combustion air as altitude increases. The kit will provide the proper design certified input rate within the specified altitude range.

PROPANE AND HIGH ALTITUDE KITS			
MODEL NUMBER	0 to 6000 ft.	6001 to 11000 ft.	6001 to 11000 ft.
GUIC GCIC	LPTK09 Propane Conversion Kit (#55 Orifice)	HANG07 High Altitude Natural Gas Kit (#45 Orifice)	HALP09 High Altitude Propane Gas Kit (#56 Orifices)

High altitude kits are purchased according to the installation altitude and usage of either natural or propane gas. Refer to the chart above for a tabular listing of appropriate altitude ranges and corresponding manufacturer’s high altitude Natural Gas and Propane Gas kits. For a tabular listing of appropriate altitude ranges and corresponding manufacturer's High Altitude Pressure Switch kits, refer to either the *Pressure Switch Trip Points & Usage Chart* in this manual or the *Accessory Charts* in Service Instructions.

PRODUCT DESIGN

PRESSURE SWITCH TRIP POINTS AND USAGE CHART											
MODEL	MINIMUM NEGATIVE PRESSURE WITH FLUE NOT FIRING TYPICAL SEA LEVEL DATA	MINIMUM NEGATIVE PRESSURE WITH FLUE FIRING TYPICAL SEA LEVEL DATA	PRESSURE SWITCH TRIP POINTS AND USAGE								
			0 to 6000 ft.			6000 to 8500 ft.			8500 to 11000 ft.		
			TRIP POINT	PRESSURE SWITCH (Prod.)	LABEL COLOR	TRIP POINT	HIGH ALTITUDE KIT	LABEL COLOR	TRIP POINT	HIGH ALTITUDE KIT	LABEL COLOR
GCIC GUIC	-0.85	-0.60	-0.55	10727920	DK BLUE	-0.50	HAC1PS11 10727915	LT BLUE	-0.41	HAC1PS12 10727916	ORANGE

Note: Replacement pressure switch number is listed below High Altitude Pressure Switch Kit number.

Note: All negative pressure readings are in inches of water column (" w.c.).

T.O.D. PRIMARY LIMIT										
Part Number	10728304	10728319	10728322	10728324	10728325	10728326	10728331	10728332	10728334	10728338
Open Setting °F	190	170	230	135	170	220	160	150	180	215
Style	2	2	3	3	3	3	3	3	3	3
Sleeve Colors	Yellow	Blue	Orange	Green	Blue	Black	Brown	Green	Yellow	1 Green 1 Yellow
GUIC045**30			1							
GUIC070**30						1				
GUIC070**40					1					
GUIC070**40 (10x8 Blower)										1
GUIC090**30		1						*1		
GUIC090**50		1					*1			
GUIC115**40		1						*1		
GUIC115**50	1								*1	
GUIC140**50				1						

*1 = The GUIC090**30 furnaces can also use primary limit part #10728332 in place of limit part #10728319 but without limit baffle part #11094802.

*1 = The GUIC090**50 furnaces can also use primary limit part #10728331 in place of limit part #10728319 but without limit baffle part #11094802.

*1 = The GUIC115**40 furnaces can also use primary limit part #10728332 in place of limit part #10728319 but without limit baffle part #11094802.

*1 = The GUIC115**50 furnaces can also use primary limit part #10728334 in place of limit part #10728304 but without limit baffle part #11094802.

T.O.D. PRIMARY LIMIT									
Part Number	10728302	10728306	10728312	10728318	10728319	10728327	10728328	10728329	10728338
Open Setting °F	150	200	160	240	170	120	210	130	215
Style	2	2	2	2	2	2	2	2	3
Sleeve Colors	Green	Black	Red	Tan	Blue	Brown	Yellow	Orange	1 Green 1 Yellow
GCIC045**30				1					
GCIC070**30							1		
GCIC070**40		1							
GCIC070**40 (10x8 Blower)									1
GCIC090**30			1						
GCIC090**50					1				
GCIC115**40						1		*1	
GCIC115**50	1								
GCIC140**50								1	

*1 = The GCIC115**40 furnaces can also use primary limit part #10728329 (130°F) in place of limit part #10728327 (120°F).

PRODUCT DESIGN

ROLLOUT LIMIT SWITCHES						
Part Number	10123508 or 10123527	10123509 or 10123528	10123510 or 10123529	10123511 or 10123530	10123512 or 10123531	10123513 or 10123532
Open Setting °F	260	275	300	250	325	350
Color	BROWN	PINK	GREEN	LT BLUE	LT PURPLE	GRAY
GUIC045**30		1				
GUIC070**30/40			1			
GUIC090**30/50			1			
GUIC115**40/50						1
GUIC140**50					1	
GCIC045**30				1		
GCIC070**30		1				
GCIC070**40					1	
GCIC090**30/50					1	
GCIC115**40/50		1				
GCIC140**50		1				

AUXILIARY LIMIT SWITCHES	
Part Number	10123506 or 10123525
Open Setting °F	160
Color	Orange
GUIC045**30	1
GUIC070**30/40	1
GUIC090**30/50	1
GUIC115**40/50	1
GUIC140**50	1
GCIC045**30	1
GCIC070**30/40	1
GCIC090**30/50	1
GCIC115**40/50	1
GCIC140**50	1

PRODUCT DESIGN

Coil Matches:

A large array of Amana coils are available for use with the GUIC and GCIC furnaces, in either upflow, counterflow, or horizontal applications. These coils are available in both cased and uncased models, with or without a TXV expansion device. These 80% furnaces match up with the existing Amana coils as shown in the chart below.

<table>
<tr><th>Btuh Input</th><th>Cabinet Width</th><th>Air Flow (tons)</th><th>CAA_F*C Cased A-Coils</th><th>CCA_FSC Uncased A-Coils</th><th>CHA_TCC Cased TXV A-Coils</th><th>CHA_TSC Uncased TXV A-Coils</th><th>CCF_F*C Horiz. A-Coils</th><th>CHF_TCC Horiz. A-Coils</th></tr>
<tr><td>45,000</td><td>16 1/2"</td><td>1 1/2 - 3</td><td rowspan="2">CCA18FCC
CCA24FCC
CCA30FCC
CCA36FCC
CCA42FCC</td><td rowspan="2">CCA18FSC
CCA24FSC
CCA30FSC
CCA36FSC
CCA42FSC</td><td rowspan="2">CHA18TCC
CHA24TCC
CHA30TCC
CHA36TCC</td><td rowspan="2">CHA18TSC
CHA24TSC
CHA30TSC
CHA36TSC</td><td rowspan="2">CCF24FCC
CCF30FCC
CCF36FCC</td><td rowspan="2">CHF18TCC
CHF24TCC
CHF30TCC</td></tr>
<tr><td>70,000</td><td>16 1/2"</td><td>2 - 3 1/2</td></tr>
<tr><td>90,000</td><td>20 1/2"</td><td>2 1/2 - 4</td><td>CCA30FDC
CCA36FDC
CCA42FDC
CCA48FCC</td><td>CCA48FSC</td><td>CHA42TCC</td><td>CHA42TSC</td><td>CCF24FDC
CCF36FDC
CCF42FCC
CCF48FCC</td><td>CHF36TCC
CHF42TCC</td></tr>
<tr><td>115,000</td><td>24 1/2"</td><td>3 - 5</td><td rowspan="2">CCA36FKC
CCA48FDC
CCA54FCC
CCA57FCC
CCA60FCC</td><td rowspan="2">CCA54FSC
CCA57FSC
CCA60FSC</td><td rowspan="2">CHA48TCC
CHA54TCC
CHA57TCC
CHA60TCC</td><td rowspan="2">CHA48TSC
CHA54TSC
CHA57TSC
CHA60TSC</td><td rowspan="2">CCF48FDC
CCF60FCC</td><td rowspan="2">CHF48TCC</td></tr>
<tr><td>140,000</td><td>24 1/2"</td><td>3 - 5</td></tr>
</table>

Thermostats:

The following Amana Thermostats are suggested for use with the GUIC and GCIC Furnace Models:

Thermostats								
Thermostat	**Man/Auto**	**Programmable**	**Cool**	**Heat**	**Batt. Powered**	**Batt. Bkup***	**Shape**	**Color**
1213401	Man. Changeover	Yes	1	1	Yes	No	Rectangular	White
1213402	Man. Changeover	No	1	1	Yes	No	Rectangular	White
1213408	Man. or Auto Changeover	Yes	1	1	No	Yes	Rectangular	White

FURNACE SPECIFICATIONS

MODEL	GUIC045CA30 GUIC045CX30 GUIC045DA30 GUIC045DX30	GUIC070CA30 GUIC070CX30 GUIC070DA30 GUIC070DX30	GUIC070CA40 GUIC070CX40 GUIC070DA40 GUIC070DX40	GUIC090CA30 GUIC090CX30 GUIC090DA30 GUIC090DX30	GUIC090CA50 GUIC090CX50 GUIC090DA50 GUIC090DX50	GUIC115CA40 GUIC115CX40 GUIC115DA40	GUIC115CA50 GUIC115CX50 GUIC115DA50 GUIC115DX50	GUIC140CA50 GUIC140CX50 GUIC140DA50
Btuh Input (US)	46,000	69,000	69,000	92,000	92,000	115,000	115,000	140,000
Output (US)	36,800	55,200	55,200	73,600	73,600	92,000	92,000	110,400
A.F.U.E.	80%	80%	80%	80%	80%	80%	80%	80%
Rated External Static (" w.c.)	.10 - .50	.12 - .50	.12 - .50	.15 - .50	.15 - .50	.20 - .50	.20 - .50	.20 - .50
Temperature Rise (°F)	35 - 65	35 - 65	35 - 65	40 - 70	40 - 70	40 - 70	40 - 70	45 - 75
Pressure Switch Trip Point (" w.c.)	-0.55	-0.55	-0.55	-0.55	-0.55	-0.55	-0.55	-0.55
Blower Wheel (D" x W")	9 x 8	9 x 8	10 x 6	10 x 8	10 x 8	10 x 7	10 x 9	10 x 9
Blower Horsepower	1/3	1/3	1/2	1/2	1/2	1/2	3/4	3/4
Blower Speeds	4	4	4	4	4	4	4	4
Max CFM @ 0.5 E.S.P.	1200	1290	1450	1380	1980	1590	1985	2050
Power Supply	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1
Minimum Circuit Ampacity (MCA)	8.6	8.5	10.4	8.2	14.6	13.1	13.7	14.6
Maximum Overcurrent Device	15	15	15	15	15	15	15	15
Transformer (VA)	40	40	40	40	40	40	40	40
Heat Anticipator	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Primary Limit Setting (°F)	230	220	170	170 or *150	170 or *160	170 or *150	190 or *180	135
Auxiliary Limit Setting (°F)	160	160	160	160	160	160	160	160
Rollout Limit Setting (°F)	275	300	300	300	300	350	350	325
Fan Delay On	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.
Off Heating *	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.
Off Cooling	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.
Gas Supply Pressure (Natural/Propane) ("w.c.)	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11
Manifold Pressure (Natural/Propane) ("w.c.)	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10
Orifice Size (Natural/Propane)	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55
Number of Burners	2	3	3	4	4	5	5	6
Vent Connector Diameter (inches)	4	4	4	4	4	4	4	4
Shipping Weight (lbs.)	140	151	152	169	178	190	194	198

* Off Heating - This fan delay timing is adjustable (60, 90, 120 or 180 seconds), 90 seconds as shipped.
*150 = The GUIC090**30 furnaces can also use primary limit part #10728332 in place of limit part #10728319 but without limit baffle part #11094802.
*160 = The GUIC090**50 furnaces can also use primary limit part #10728331 in place of limit part #10728304 but without limit baffle part #11094802.
*150 = The GUIC115**40 furnaces can also use primary limit part #10728332 in place of limit part #10728319 but without limit baffle part #11094802.
*180 = The GUIC115**50 furnaces can also use primary limit part #10728334 in place of limit part #10728304 but without limit baffle part #11094802.

1. These furnaces are manufactured for natural gas operation. Optional kits are available for conversion to propane gas operation.
2. For elevations above 2000 feet the rating should be reduced by 4% for each 1000 feet above sea level. The furnace must not be derated, orifice changes should only be made if necessary for altitude.
3. The total heat loss from the structure as expressed in TOTAL BTU/HR must be calculated by the manufacturers method in accordance with the "A.S.H.R.A.E. GUIDE" or "MANUAL J-LOAD CALCULATIONS" published by the AIR CONDITIONING CONTRACTORS OF AMERICA. The total heat loss calculated should be equal to or less than the heating capacity. Output based on D.O.E. test procedures, steady state efficiency times output.
4. Minimum Circuit Ampacity calculated as: (1.25 x Circulator Blower Amps) + I.D. Blower Amps.

FURNACE SPECIFICATIONS

MODEL	GUIC070DA40	GUIC070DX40	GCIC070DX40
Btuh Input (US)	69,000	69,000	69,000
Output (US)	55,200	55,200	55,200
A.F.U.E.	80%	80%	80%
Rated External Static (" w.c.)	.12 - .50	.12 - .50	.12 - .50
Temperature Rise (°F)	35 - 65	35 - 65	45 - 75
Pressure Switch Trip Point (" w.c.)	-0.55	-0.55	-0.55
Blower Wheel (D" x W")	10 x 8	10 x 8	10 x 8
Blower Horsepower	1/2	1/2	1/2
Blower Speeds	4	4	4
Max CFM @ 0.5 E.S.P.	1529	1529	1571
Power Supply	115-60-1	115-60-1	115-60-1
Minimum Circuit Ampacity (MCA)	9.9	9.9	9.9
Maximum Overcurrent Device	15	15	15
Transformer (VA)	40	40	40
Heat Anticipator	0.7	0.7	0.7
Primary Limit Setting (°F)	215	215	215
Auxiliary Limit Setting (°F)	160	160	160
Rollout Limit Setting (°F)	300	300	300
Fan Delay On	30 secs.	30 secs.	30 secs.
Off Heating *	90 secs.	90 secs.	90 secs.
Off Cooling	45 secs.	45 secs.	45 secs.
Gas Supply Pressure (Natural/Propane) ("w.c.)	7 / 11	7 / 11	7 / 11
Manifold Pressure (Natural/Propane) ("w.c.)	3.5 / 10	3.5 / 10	3.5 / 10
Orifice Size (Natural/Propane)	#43 / #55	#43 / #55	#43 / #55
Number of Burners	3	3	3
Vent Connector Diameter (inches)	4	4	4
Shipping Weight (lbs.)	152	152	152

* Off Heating - This fan delay timing is adjustable (60, 90, 120 or 180 seconds), 90 seconds as shipped.
** Note: The three models above use 10x8 blower assembly instead of 10x6 to achieve a full 4 tons of airflow.

1. These furnaces are manufactured for natural gas operation. Optional kits are available for conversion to propane gas operation.
2. For elevations above 2000 feet the rating should be reduced by 4% for each 1000 feet above sea level. The furnace must not be derated, orifice changes should only be made if necessary for altitude.
3. The total heat loss from the structure as expressed in TOTAL BTU/HR must be calculated by the manufacturers method in accordance with the "A.S.H.R.A.E. GUIDE" or "MANUAL J-LOAD CALCULATIONS" published by the AIR CONDITIONING CONTRACTORS OF AMERICA. The total heat loss calculated should be equal to or less than the heating capacity. Output based on D.O.E. test procedures, steady state efficiency times output.
4. Minimum Circuit Ampacity calculated as: (1.25 x Circulator Blower Amps) + I.D. Blower Amps.

FURNACE SPECIFICATIONS

MODEL	GCIC045CX30	GCIC070CX30	GCIC070CX40	GCIC090CX30	GCIC090CX50	GCIC115CX40	GCIC115CX50	GCIC140CX50
Btuh Input (US)	46,000	69,000	69,000	92,000	92,000	115,000	115,000	140,000
Output (US)	36,800	55,200	55,200	73,600	73,600	92,000	92,000	110,400
A.F.U.E.	80%	80%	80%	80%	80%	80%	80%	80%
Rated External Static (" w.c.)	.10 - .50	.12 - .50	.12 - .50	.15 - .50	.15 - .50	.20 - .50	.20 - .50	.20 - .50
Temperature Rise (°F)	35 - 65	45 - 75	45 - 75	45 - 75	45 - 75	45 - 75	45 - 75	45 - 75
Pressure Switch Trip Point (" w.c.)	-0.55	-0.55	-0.55	-0.55	-0.55	-0.55	-0.55	-0.55
Blower Wheel (D" x W")	9 x 8	9 x 8	10 x 6	10 X 8	10 x 8	10 x 7	10 x 9	10 x 9
Blower Horsepower	1/3	1/3	1/2	1/3	1/2	1/2	3/4	3/4
Blower Speeds	4	4	4	4	4	4	4	4
Max CFM @ 0.5 E.S.P.	1160	1150	1370	1270	1780	1660	1840	1850
Power Supply	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1
Minimum Circuit Ampacity (MCA)	8.6	9.0	10.4	8.2	14.4	12.7	14.1	14.1
Maximum Overcurrent Device	15	15	15	15	15	15	15	15
Transformer (VA)	40	40	40	40	40	40	40	40
Heat Anticipator	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Primary Limit Setting (°F)	240	200	170	170	160	*130	130	140
Auxiliary Limit Setting (°F)	160	160	160	160	160	160	160	160
Rollout Limit Setting (°F)	250	275	275	325	325	275	275	275
Fan Delay On	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.
Off Heating *	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.
Off Cooling	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.
Gas Supply Pressure (Natural/Propane) ("w.c.)	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11
Manifold Pressure (Natural/Propane) ("w.c.)	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10
Orifice Size (Natural/Propane)	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55
Number of Burners	2	3	3	4	4	5	5	6
Vent Connector Diameter (inches)	3	3	3	3	3	3	3	3
Shipping Weight (lbs.)	140	151	152	169	178	190	194	198

* Off Heating - This fan delay timing is adjustable (60, 90, 120 or 180 seconds), 90 seconds as shipped.
*130 = The GUIC115**40 furnaces were changed from primary limit part #10728327 (120°F) to limit part #10728329 (130°F) per ECN60643 effective April 7, 1999.

1. These furnaces are manufactured for natural gas operation. Optional kits are available for conversion to propane gas operation.
2. For elevations above 2000 feet the rating should be reduced by 4% for each 1000 feet above sea level. The furnace must not be derated, orifice changes should only be made if necessary for altitude.
3. The total heat loss from the structure as expressed in TOTAL BTU/HR must be calculated by the manufacturers method in accordance with the "A.S.H.R.A.E. GUIDE" or "MANUAL J-LOAD CALCULATIONS" published by the AIR CONDITIONING CONTRACTORS OF AMERICA. The total heat loss calculated should be equal to or less than the heating capacity. Output based on D.O.E. test procedures, steady state efficiency times output.
4. Minimum Circuit Ampacity calculated as: (1.25 x Circulator Blower Amps) + I.D. Blower Amps.

BLOWER PERFORMANCE SPECIFICATIONS

GUIC Blower Performance (CFM & Temperature Rise vs. External Static Pressure)														
Model (Heating Speed As Shipped)	MOTOR SPEED	TONS AC @ 0.5" ESP	External Static Pressure (Inches Water Column)											
			0.1		0.2		0.3		0.4		0.5		0.6	
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
GUIC045**30 (Low)	HIGH	3.0	1460	---	1400	---	1345	---	1280	---	1200	---	1110	---
	MED	2.5	1200	---	1150	---	1100	---	1050	---	980	35	900	38
	MED-LO	2.0	935	36	910	37	885	39	845	40	790	43	710	48
	LOW	1.5	700	49	685	50	665	51	635	54	575	59	425	---
GUIC070**30 (Med-Lo)	HIGH	3.0	1555	---	1505	---	1440	35	1365	37	1290	39	1180	43
	MED	3.0	1325	38	1305	39	1250	41	1200	42	1140	44	1060	48
	MED-LO	2.5	1090	47	1080	47	1055	48	1020	50	970	52	905	56
	LOW	2.0	760	---	750	---	750	---	735	---	700	---	645	---
GUIC070**40 (Low)	HIGH	3.5	1695	---	1625	---	1580	---	1520	---	1450	35	1365	37
	MED	3.0	1485	---	1450	35	1400	36	1350	38	1295	39	1235	41
	MED-LO	3.0	1235	41	1200	42	1180	43	1140	44	1115	45	1050	48
	LOW	2.5	1095	46	1070	47	1050	48	1025	49	975	52	950	53
GUIC090**30 (High)	HIGH	3.5	1630	42	1560	44	1550	44	1465	47	1380	49	1275	53
	MED	3.0	1360	50	1325	51	1290	53	1215	56	1155	59	1070	64
	MED-LO	2.0	920	---	920	---	900	---	890	---	850	---	800	---
	LOW	1.5	770	---	750	---	740	---	730	---	690	---	660	---
GUIC090**50 (Med-Lo)	HIGH	5.0	2250	---	2185	---	2120	---	2030	---	1975	---	1885	---
	MED	4.0	1775	---	1750	---	1735	---	1690	40	1650	41	1600	43
	MED-LO	3.5	1320	52	1315	52	1315	52	1315	52	1280	53	1240	55
	LOW	3.0	1180	58	1180	58	1175	58	1170	58	1140	60	1120	61
GUIC115**40 (High)	HIGH	4.0	1835	46	1780	48	1730	49	1660	51	1590	53	1530	55
	MED	3.5	1630	52	1595	53	1540	55	1490	57	1440	59	1375	62
	MED-LO	3.0	1320	64	1305	65	1290	66	1260	67	1200	---	1180	---
	LOW	2.5	1140	---	1145	---	1120	---	1100	---	1065	---	1030	---
GUIC115**50 (Med)	HIGH	5.0	2330	36	2245	38	2165	39	2065	41	1985	43	1885	45
	MED	5.0	2120	40	2070	41	2020	42	1940	44	1850	46	1775	48
	MED-LO	4.0	1875	45	1840	46	1800	47	1735	49	1685	50	1600	53
	LOW	3.0	1290	---	1275	---	1250	---	1235	---	1210	---	1170	---
GUIC140**50 (High)	HIGH	5.0	2455	---	2390	---	2290	---	2200	46	2050	49	1935	52
	MED	5.0	2050	49	2025	50	1965	52	1890	54	1810	56	1715	59
	MED-LO	4.0	1715	59	1700	60	1660	61	1615	63	1555	65	1470	69
	LOW	3.5	1450	70	1435	71	1415	72	1380	73	1340	---	1280	---

1. CFM in chart is without filters(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
2. All furnaces ship as high speed cooling. Installer must adjust blower cooling speed as needed.
3. For most jobs, about 400 CFM per ton when cooling is desirable.
4. INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate. The shaded area indicates ranges in excess of maximum external static pressure allowed when heating.

6 The dashed (---) areas indicate a temperature rise not recommended for this model.

7. The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.

BLOWER PERFORMANCE SPECIFICATIONS

GCIC Blower Performance (CFM & Temperature Rise vs. External Static Pressure)														
Model (Heating Speed As Shipped)	MOTOR SPEED	TONS AC @ 0.5" ESP	External Static Pressure (Inches Water Column)											
			0.1		0.2		0.3		0.4		0.5		0.6	
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
GCIC045**30	HIGH	3.0	1455	---	1430	---	1360	---	1255	---	1160	---	1040	---
(Low)	MED	2.5	1255	---	1200	---	1150	---	1075	---	990	---	890	38
	MED-LO	2.0	1010	---	980	35	940	36	880	39	810	42	700	49
	LOW	1.5	775	44	745	46	710	48	655	52	560	61	435	---
GCIC070**30	HIGH	3.0	1455	---	1420	---	1365	---	1275	---	1145	---	1015	50
(Med-Lo)	MED	3.0	1110	46	1090	47	1050	48	1015	50	935	54	845	60
	MED-LO	2.5	910	56	905	56	895	57	860	59	810	63	745	68
	LOW	2.0	730	69	715	71	710	71	680	75	645	---	490	---
GCIC070**40	HIGH	3.5	1655	---	1580	---	1500	---	1445	---	1366	---	1280	---
(Low)	MED	3.0	1530	---	1470	---	1400	---	1345	---	1280	---	1210	---
	MED-LO	3.0	1090	47	1075	47	1055	48	1015	50	975	52	915	55
	LOW	2.5	945	54	935	54	915	55	890	57	850	60	810	63
GCIC090**30	HIGH	3.5	1620	---	1550	---	1470	46	1385	49	1265	54	1165	59
(High)	MED	3.0	1415	48	1355	50	1285	53	1215	56	1120	61	1015	67
	MED-LO	2.0	1025	67	1010	68	990	69	945	72	890	---	815	---
	LOW	1.5	850	---	840	---	810	---	790	---	750	---	675	---
GCIC090**50	HIGH	5.0	2110	---	2030	---	1960	---	1870	---	1780	---	1680	---
(Med-Lo)	MED	4.0	1830	---	1765	---	1710	---	1640	---	1550	---	1470	46
	MED-LO	3.5	1260	54	1255	54	1230	55	1200	57	1170	58	1115	61
	LOW	3.0	1015	67	1000	68	980	70	964	71	930	73	875	---
GCIC115**40	HIGH	4.0	1960	---	1890	45	1825	46	1745	49	1660	51	1580	54
(High)	MED	3.5	1725	49	1685	50	1640	52	1585	53	1515	56	1440	59
	MED-LO	3.0	1440	59	1425	60	1405	60	1380	61	1335	64	1275	67
	LOW	2.5	1035	---	1025	---	1015	---	1005	---	975	---	955	---
GCIC115**50	HIGH	5.0	2100	---	2060	---	2000	---	1915	---	1840	46	1750	48
(Med)	MED	5.0	1915	---	1890	45	1840	46	1775	48	1710	50	1635	52
	MED-LO	4.0	1535	55	1516	56	1485	57	1455	58	1410	60	1355	63
	LOW	3.0	1175	72	115	73	1140	74	1120	---	1090	---	1060	---
GCIC140**50	HIGH	5.0	2255	45	2170	47	2065	49	1970	51	1845	55	1735	58
(High)	MED	5.0	2170	47	2045	50	1945	52	1855	55	1750	58	1650	61
	MED-LO	4.0	1845	55	1790	57	1720	59	1620	63	1525	66	1445	70
	LOW	3.5	1425	71	1390	73	1370	74	1320	---	1265	---	1185	---

1. CFM in chart is without filters(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
2. All furnaces ship as high speed cooling. Installer must adjust blower cooling speed as needed.
3. For most jobs, about 400 CFM per ton when cooling is desirable.
4. INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate. The shaded area indicates ranges in excess of maximum external static pressure allowed when heating.

6 The dashed (---) areas indicate a temperature rise not recommended for this model.

7. The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.

BLOWER PERFORMANCE SPECIFICATIONS

GUIC/GCIC070**40 Blower Performance (CFM & Temperature Rise vs. External Static Pressure)													
Model (Heating Speed As Shipped)	MOTOR SPEED	TONS AC @ 0.5" ESP	External Static Pressure (Inches Water Column)										
			0.1		0.2		0.3		0.4		0.5		0.6
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM
GUIC070**40 (Med-Lo)	HIGH	4.0	1799	---	1742	---	1694	---	1622	---	1529	---	1444
	MED	3.5	1730	---	1590	---	1542	---	1483	---	1404	36	1330
	MED-LO	2.5	1113	46	1096	47	1078	47	1067	48	1018	50	967
	LOW	2.0	967	53	954	54	941	54	913	56	885	58	826
GCIC070**40 (Low)	HIGH	4.0	1882	---	1814	---	1743	---	1676	---	1571	---	1492
	MED	3.5	1746	---	1668	---	1603	---	1530	---	1432	---	1368
	MED-LO	2.5	1169	44	1141	45	1136	45	1102	46	1043	49	1006
	LOW	2.0	1006	51	993	51	980	52	954	54	921	55	871

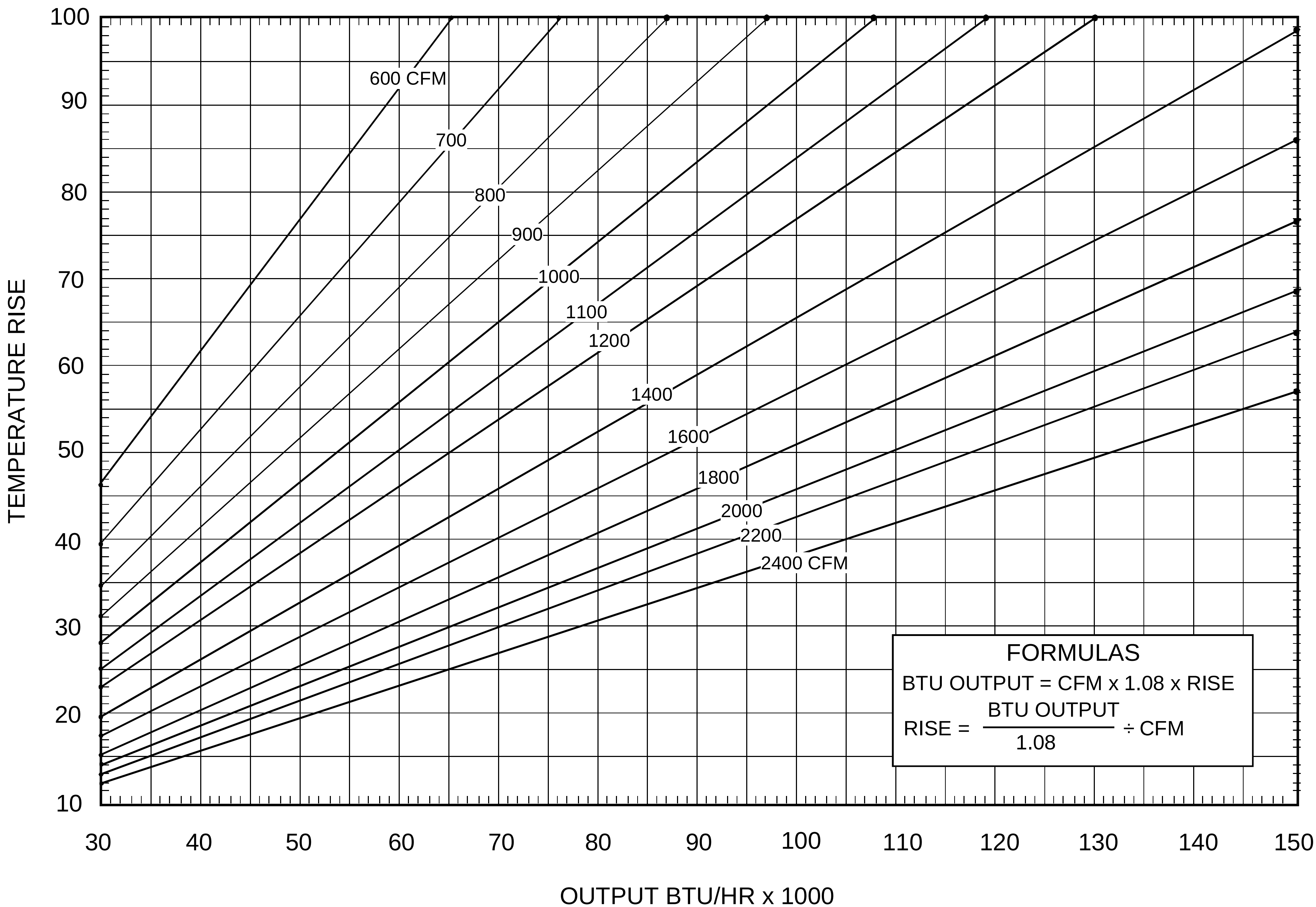
Note: The models listed in the above airflow table use 10x8 blower assembly instead of 10x6 to achieve a full 4 tons of airflow. Listed below are the model numbers along with the manufacturing numbers of the three units using the 10x8 blower assembly.

GUIC070DA40	P1226609F
GUIC070DX40	P1226709F
GCIC070DX40	P1226809F

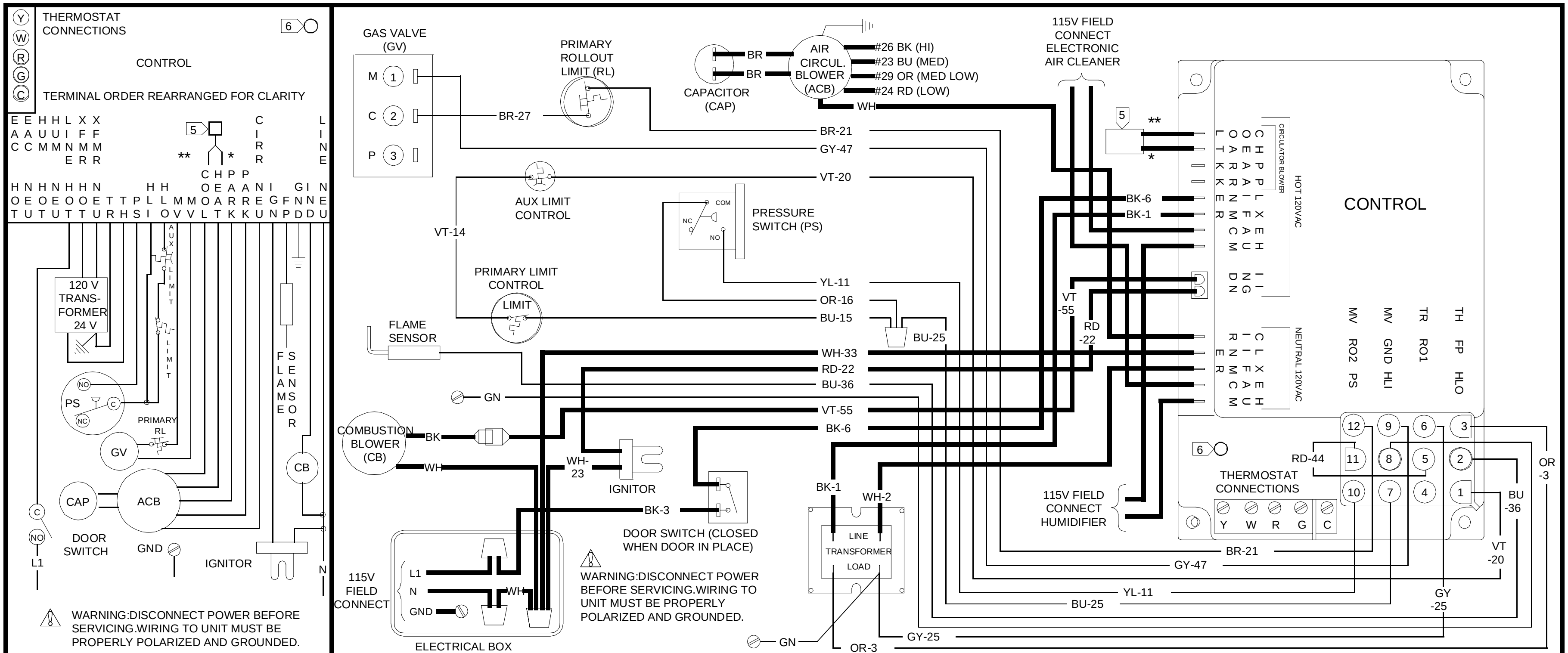
1. CFM in chart is without filters(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
2. All furnaces ship as high speed cooling. Installer must adjust blower cooling speed as needed.
3. For most jobs, about 400 CFM per ton when cooling is desirable.
4. INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate. The shaded area indicates ranges in excess of maximum external static pressure allowed when heating.
6 The dashed (---) areas indicate a temperature rise not recommended for this model.
7. The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.

BLOWER PERFORMANCE SPECIFICATIONS

BTU OUTPUT vs TEMPERATURE RISE CHART



GUIC and GCIC (See model numbers above)



FACTORY WIRED BLOWER MOTOR TO CONTROL CONNECTIONS				
FURNACE MODEL	* HEATING BLOWER SPEED			** COOLING BLOWER SPEED
* MANUFACTURER'S VARIABLE LETTER	SPEED	MOTOR TO "HEAT"	MOTOR SPEEDS	
GUI*,GCI*: 045*30, 070*40	LOW	RD-24	4	SEE INSTALLATION INSTRUCTIONS TO DETERMINE PROPER COOLING BLOWER SPEED.
GUI*,GCI*: 070*30, 090*50	MED LOW	OR-29	4	
GUI*,GCI*: 115*50	MED	BU-23	4	
GUI*,GCI*: 090*30, 115*40,140*50	HI	BK-26	4	

COLOR CODE
YL YELLOW
OR ORANGE
VT VIOLET
GN GREEN
BK BLACK
BR BROWN
WH WHITE
BU BLUE
GY GRAY
RD RED

LOW VOLTAGE	———
LOW VOLTAGE FIELD	———
HI VOLTAGE	━━━
HI VOLTAGE FIELD	━━━

IMPORTANT:

READ BEFORE OPERATING OR SERVICING THIS UNIT.

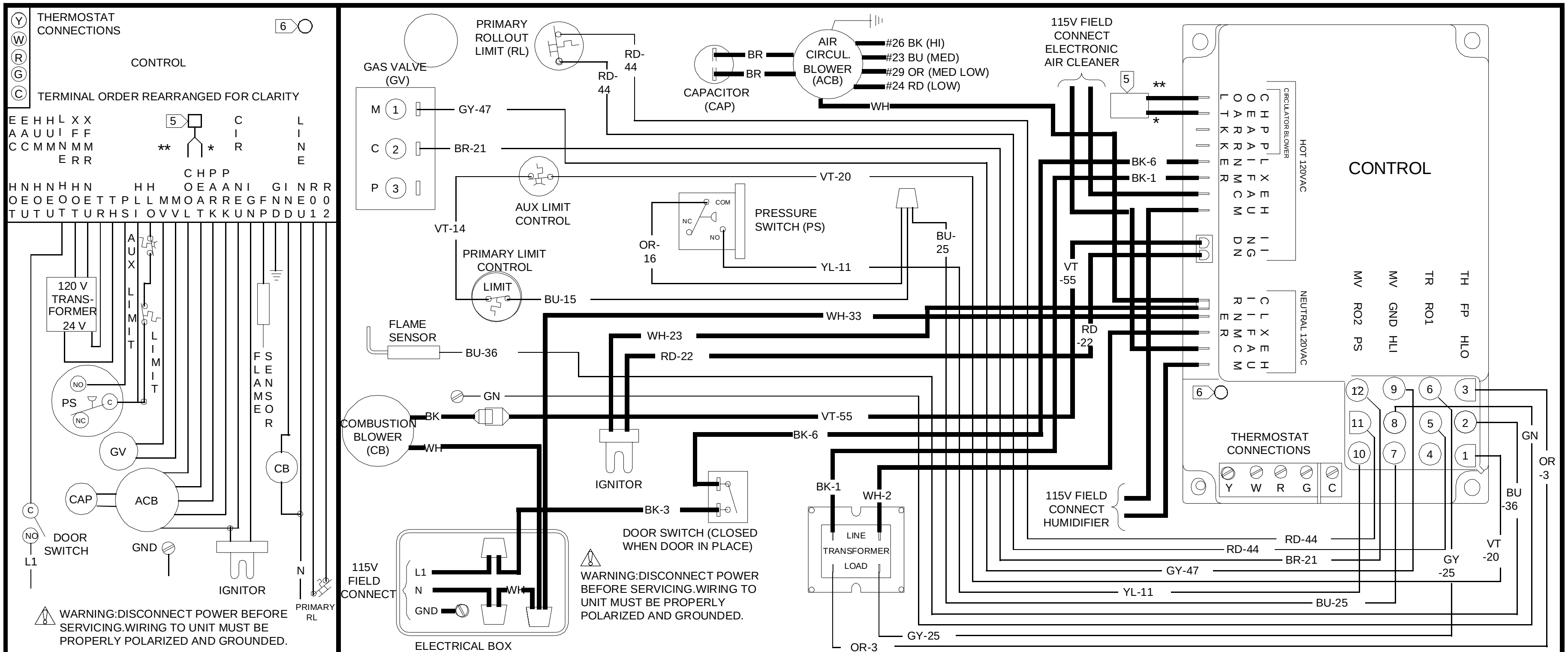
1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105°C. USE COPPER CONDUCTORS ONLY.
4. UNUSED BLOWER MOTOR LEADS MUST BE PLACED ON "PARK" TERMINALS OF CONTROL OR TAPED.

5 IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS.

6 DIAGNOSTIC LIGHT:STEADY=REPLACE CONTROL;1 FLASH=LOCKOUT;2 FLASHES=PS STUCK CLOSE; 3 FLASHES=PS STUCK OPEN;4 FLASHES=OPEN HIGH LIMIT SWITCH;5 FLASHES=RED WIRE ON CONTROL CONNECTOR OPEN

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WARNING — **TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.**



GUIC and GCIC (See model numbers above)

FACTORY WIRED BLOWER MOTOR TO CONTROL CONNECTIONS

FURNACE MODEL	* HEATING BLOWER SPEED			** COOLING BLOWER SPEED
* MANUFACTURER'S VARIABLE LETTER	SPEED	MOTOR TO "HEAT"	MOTOR SPEEDS	
GUI*,GCI*: 045*30, 070*40	LOW	RD-24	4	SEE INSTALLATION INSTRUCTIONS TO DETERMINE PROPER COOLING BLOWER SPEED.
GUI*,GCI*: 070*30, 090*50	MED LOW	OR-29	4	
GUI*,GCI*: 115*50	MED	BU-23	4	
GUI*,GCI*: 090*30, 115*40,140*50	HI	BK-26	4	

COLOR CODE
YL YELLOW
OR ORANGE
VT VIOLET
GN GREEN
BK BLACK
BR BROWN
WH WHITE
BU BLUE
GY GRAY
RD RED

LOW VOLTAGE
LOW VOLTAGE FIELD
HI VOLTAGE
HI VOLTAGE FIELD

IMPORTANT:

READ BEFORE OPERATING OR SERVICING THIS UNIT.

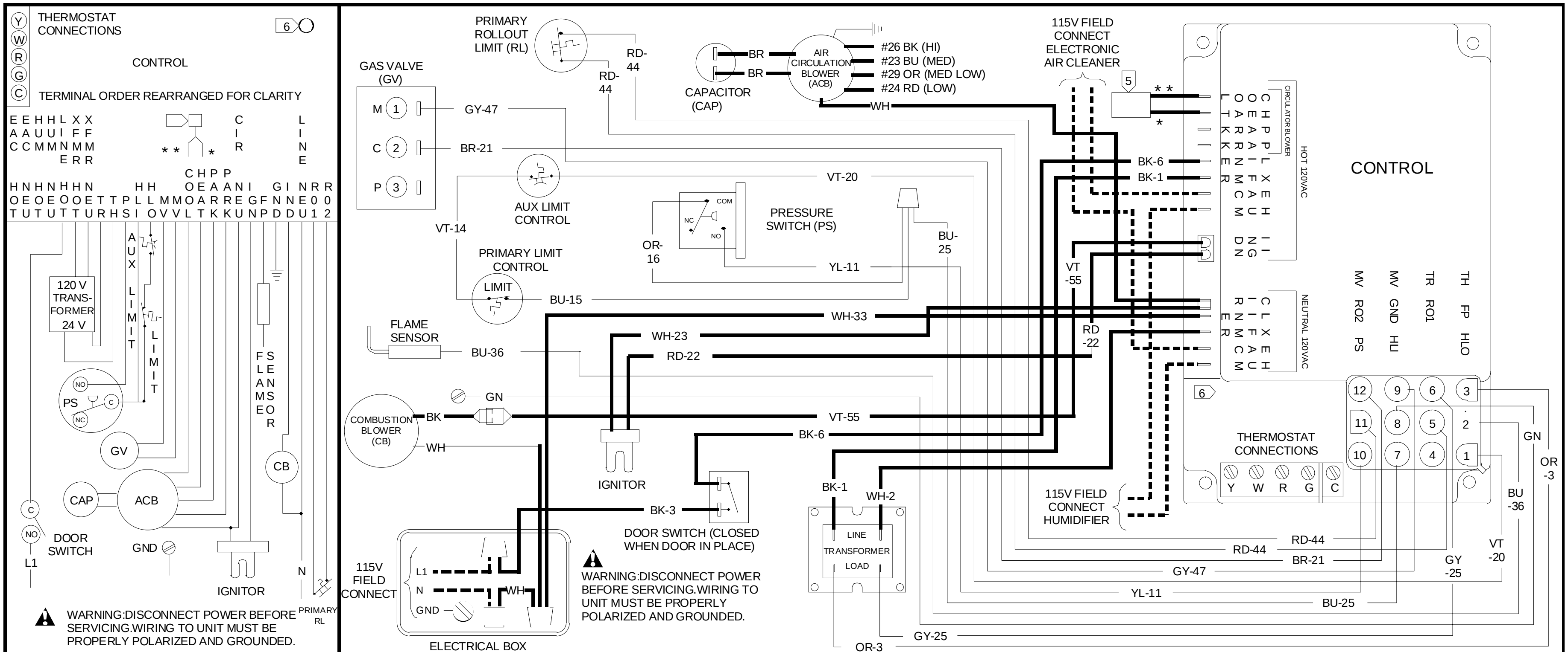
1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105°C. USE COPPER CONDUCTORS ONLY.
4. UNUSED BLOWER MOTOR LEADS MUST BE PLACED ON "PARK" TERMINALS OF CONTROL OR TAPED.
5. IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS.
6. DIAGNOSTIC LIGHT:STEADY=REPLACE CONTROL;1 FLASH=LOCKOUT;2 FLASHES=PS STUCK CLOSED; 3 FLASHES=PS STUCK OPEN;4 FLASHES=OPEN HIGH LIMIT SWITCH;5 FLASHES=OPEN ROLLOUT CONTROL, CONTINUOUS FLASHING=FLAME-NO CALL FOR HEAT.

11094601 REV.03

WARNING — **TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.**

WIRING DIAGRAMS

GUIC and GCIC (See model numbers above)



FACTORY WIRED BLOWER MOTOR TO CONTROL CONNECTIONS

FURNACE MODEL	* HEATING BLOWER SPEED			* * COOLING BLOWER SPEED
* MANUFACTURER'S VARIABLE LETTER	SPEED	MOTOR TO "HEAT"	MOTOR SPEEDS	
GUI*,GCI*: 045*30, GCI*: 070*40	LOW	RD-24	4	SEE INSTALLATION INSTRUCTIONS TO DETERMINE PROPER COOLING BLOWER SPEED.
GUI*,GCI*: 070*30, 090*50 GUI*: 070*40	MED LOW	OR-29	4	
GUI*,GCI*: 115*50	MED	BU-23	4	
GUI*,GCI*: 090*30, 115*40,140*50	HI	BK-26	4	

COLOR CODE
- YL YELLOW
- OR ORANGE
- VT VIOLET
- GN GREEN
- BK BLACK
- BR BROWN
- WH WHITE
- BU BLUE
- GY GRAY
- RD RED

- LOW VOLTAGE
- LOW VOLTAGE FIELD
- HI VOLTAGE
- HI VOLTAGE FIELD

IMPORTANT:

READ BEFORE OPERATING OR SERVICING THIS UNIT.

1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105C. USE COPPER CONDUCTORS ONLY.
4. UNUSED BLOWER MOTOR LEADS MUST BE PLACED ON "PARK" TERMINALS OF CONTROL OR TAPED.

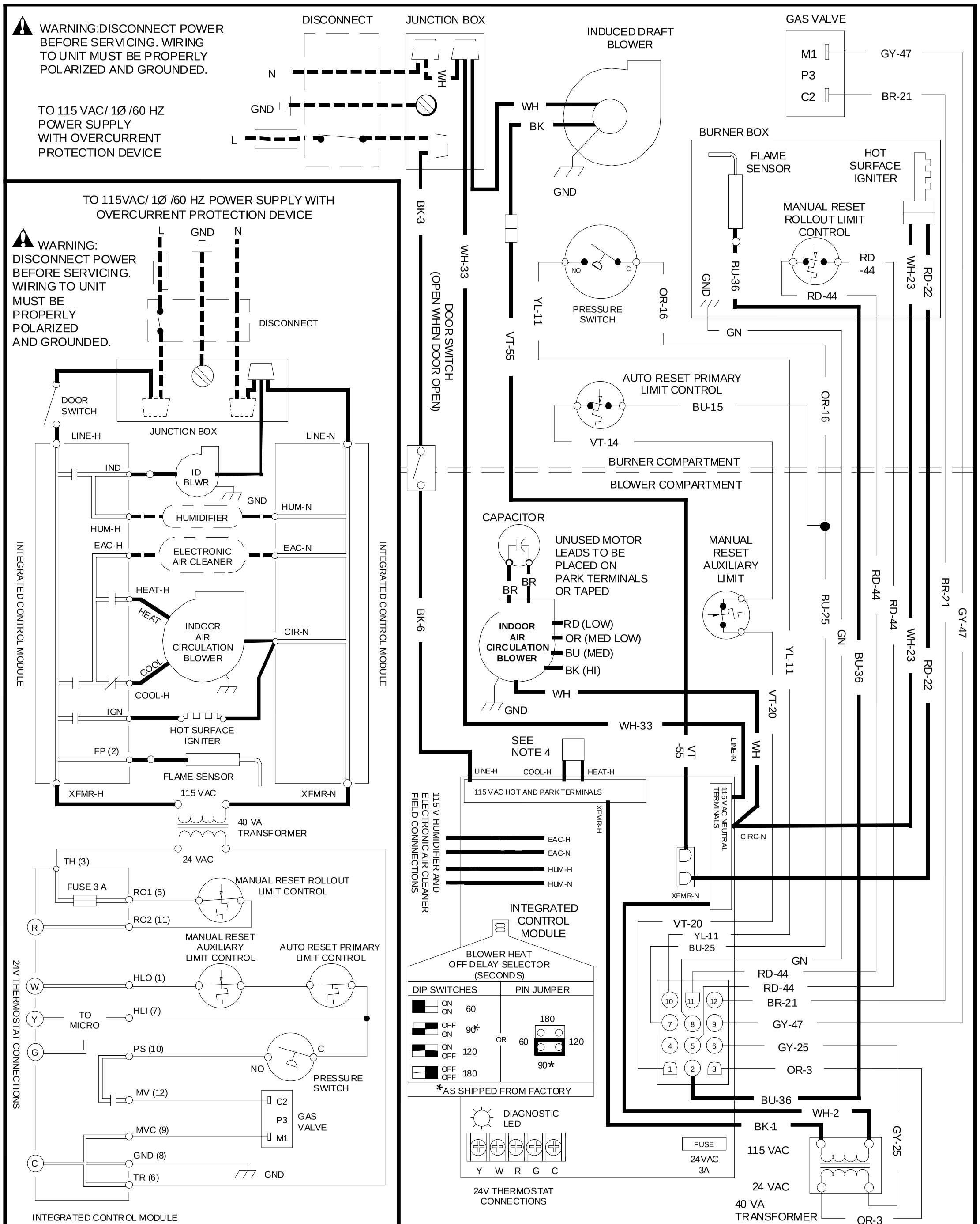
5 IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS.

6 DIAGNOSTIC LIGHT:STEADY=REPLACE CONTROL;1 FLASH=LOCKOUT;2 FLASHES=PS STUCK CLOSED; 3 FLASHES=PS STUCK OPEN;4 FLASHES=OPEN HIGH LIMIT SWITCH;5 FLASHES=OPEN ROLLOUT CONTROL; CONTINUOUS FLASHING=FLAME-NO CALL FOR HEAT.

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WARNING — **TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.**

WIRING DIAGRAMS



0	STEADY ON = REPLACE CONTROL
1	1 FLASH = SYSTEM LOCKOUT (RETRIES/RECYCLES EXCEEDED)
2	2 FLASHES = PRESSURE SWITCH STUCK CLOSED
3	3 FLASHES = PRESSURE SWITCH STUCK OPEN
4	4 FLASHES = OPEN PRIMARY OR AUXILIARY LIMIT
5	5 FLASHES = OPEN ROLLOUT LIMIT
6	6 FLASHES =115V AC POWER REVERSED OR POOR UNIT GROUND
7	7 FLASHES = LOW FLAME SENSE SIGNAL
C	CONTINUOUS FLASHES = UNANTICIPATED FLAME PRESENT

LOW VOLTAGE (24V)
LOW VOLTAGE FIELD
HI VOLTAGE (115V)
HI VOLTAGE FIELD
JUNCTION
TERMINAL
INTERNAL TO INTEGRATED CONTROL
PLUG CONNECTION

EQUIPMENT GND
FIELD GND
FIELD SPLICE
SWITCH (TEMP.)
IGNITER
SWITCH (PRESS.)
OVERCURRENT PROT. DEVICE

COLOR CODES:

YL YELLOW	BR BROWN
OR ORANGE	WH WHITE
VT VIOLET	BU BLUE
GN GREEN	GY GRAY
BK BLACK	RD RED

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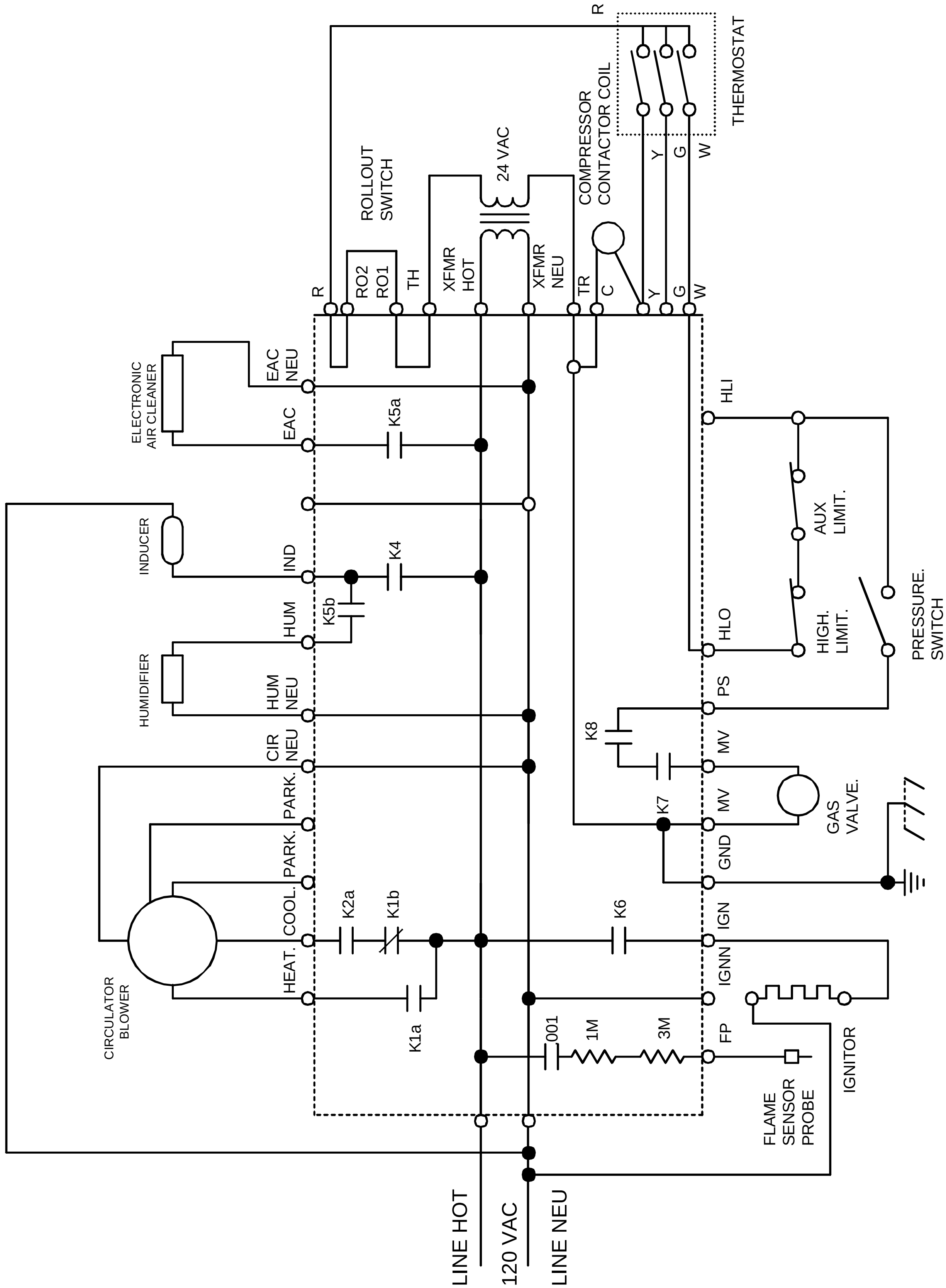
NOTES:
1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105C. USE COPPER CONDUCTORS ONLY.
4. IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS. UNUSED BLOWER LEADS MUST BE PLACED ON "PARK" TERMINALS OF INTEGRATED CONTROL OR TAPED.
5. UNIT MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C. AND LOCAL CODES.

GUIC (Models using WR50A55 Ignition Control)

WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

SCHEMATICS



WARNING

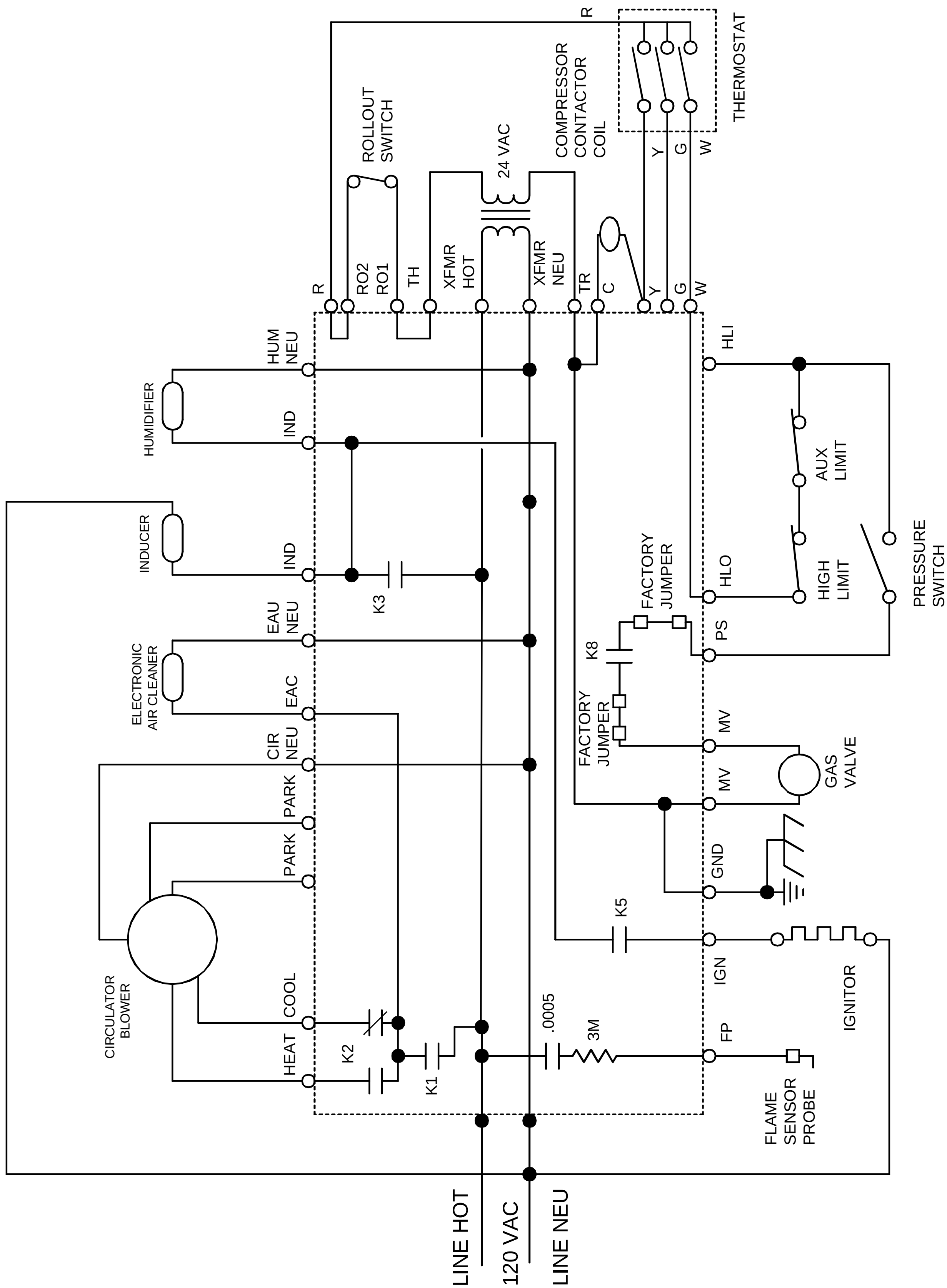
TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

GUIC and GCIC

WR50A50 INTEGRATED IGNITION CONTROL

This schematic is for reference only. Not all wiring is as shown above, refer to the appropriate wiring diagram for the unit being serviced.

WIRING DIAGRAMS



WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

GUIC and GCIC

WR50A55 INTEGRATED IGNITION CONTROL

This schematic is for reference only. Not all wiring is as shown above, refer to the appropriate wiring diagram for the unit being serviced.